

## AMENDMENTS TO THE CLAIMS

1. (currently amended) A process for preparing catalyst systems of the Ziegler-Natta type, which comprises the following steps:
  - A) bringing an inorganic metal oxide into contact with ~~a tetravalent titanium compound~~titanium tetrachloride; and
  - B) bringing the intermediate obtained from step A) into contact with a magnesium compound  $\text{MgR}^1_n\text{X}^{1}_{2-n}$ , where  $\text{X}^1$  are each, independently of one another, fluorine, chlorine, bromine, iodine, hydrogen,  $\text{NR}^{\text{X}}_2$ ,  $\text{OR}^{\text{X}}$ ,  $\text{SR}^{\text{X}}$ ,  $\text{SO}_3\text{R}^{\text{X}}$  or  $\text{OC(O)R}^{\text{X}}$ , and  $\text{R}^1$  and  $\text{R}^{\text{X}}$  are each, independently of one another, a linear, branched or cyclic  $\text{C}_1$ - $\text{C}_{20}$ -alkyl, a  $\text{C}_2$ - $\text{C}_{10}$ -alkenyl, an alkylaryl having 1-10 carbon atoms in the alkyl part and 6-20 carbon atoms in the aryl part or a  $\text{C}_6$ - $\text{C}_{18}$ -aryl and  $n$  is 1 or 2,
  - C) bringing the intermediate obtained from step B) into contact with a halogenating reagent, and
  - D) bringing the intermediate obtained from step C) into contact with a donor compound containing at least one nitrogen atom.
2. (currently amended) ~~A~~The process for preparing catalyst systems as claimed in claim 1, wherein ~~a magnesium compound  $\text{MgR}^1_2$  is used in step B)~~ $n$  is 2.
3. (currently amended) ~~A~~The process for preparing catalyst systems as claimed in claim 1, wherein the halogenating reagent used in step C) is chloroform.
4. (currently amended) ~~A~~The process for preparing catalyst systems as claimed in claim 1, wherein the inorganic metal oxide used in step A) is a silica gel.
5. (canceled)

6. (canceled)
7. (currently amended) A catalyst system of the Ziegler-Natta type ~~which can be prepared by~~  
at the process as claimed in claim 1.
8. (currently amended) ~~A prepolymerized~~The catalyst system comprising a catalyst system as  
claimed in claim 7 ~~and, further comprising prepolymerized~~ linear C<sub>2</sub>-C<sub>10</sub>-1-alkenes  
~~polymerized onto it~~ in a mass ratio of from 1:0.1 to 1:200.
9. (currently amended) A process for the polymerization or copolymerization of olefins at  
from 20 to 150°C and pressures of from 1 to 100 bar in the presence of at least one catalyst  
system as claimed in claim 7 and, ~~if appropriate~~optionally, an aluminum compound as  
cocatalyst.
10. (currently amended) ~~A~~The process for the polymerization or copolymerization of olefins  
as claimed in claim 9, wherein a trialkylaluminum compound whose alkyl groups each  
have from 1 to 15 carbon atoms is used as the aluminum compound.
11. (currently amended) ~~A~~The process for the polymerization or copolymerization of olefins  
as claimed in claim 9, wherein ethylene or a mixture of ethylene and C<sub>3</sub>-C<sub>8</sub>- $\alpha$ -monoolefins  
is (co)polymerized.
12. canceled.